

Glenn E. Vallee, Ph.D., P.E.

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EDUCATION

- Ph.D. May, 1995, University of Rhode Island, Kingston, RI
Major: Mechanical Engineering and Applied Mechanics
Thesis: "A Study of the Dynamic Mechanical Behavior of Elastomeric Materials Under Impact Loading"
- M.S. May, 1990, University of Rhode Island, Kingston, RI
Major: Mechanical Engineering and Applied Mechanics
Thesis: "A Study of the Effect of Geometry on the Mechanical Behavior of an Epichlorohydrin Elastomer Used as an Impact Absorber in Pneumatic Fastening Tools"
- B.S. May, 1985, University of Rhode Island, Kingston, RI
Major: Mechanical Engineering

ACADEMIC EXPERIENCE

Western New England University, Springfield, MA (August 2002 to present)

Associate Professor of Mechanical Engineering

- Responsible for development of a curriculum of instruction for courses in solid mechanics, mechanical vibrations, materials science, mechanical design, experimental methods and New Product Development.
- Co-developed a Product Innovation and Development Center with the Colleges of Business and Law to secure corporate funding for the development of innovative new products, promote entrepreneurship, and commercialize student inventions.
- Obtained corporate sponsorship for over 40 senior projects and filed 5 utility and 9 provisional patents for product innovations.
- Director of the Mechanical Testing Lab responsible for bringing state of the art experimental capabilities to the solid mechanics lab in the Mechanical Engineering department, thus providing capabilities for research in the areas of static and dynamic material behavior of elastomers and solids under high strain rates.
- Mechanical Engineering faculty advisor for 10 interdisciplinary team projects.
- Received the one of the highest teaching evaluation ratings from students in the School of Engineering over the past five years (4.6/5.0).
- Served as faculty liaison to the Mechanical Engineering Industrial Advisory Council.
- Secured resources from corporations for laboratory equipment totaling over \$35,000.
- Developed the biodiesel generation facility for sustainability at Western New England University
- Coordinator for the approval of University Patent Filings

Courses Taught:

- Graduate Level: ME-619 Analytical and Experimental Stress Analysis*
- Senior Level: ME-425 Design of Machine Elements
ME-490 Mechanical Engineering Product Innovation and Development*
- ME-423/BME-423/BUS 423 – Product Innovation and Development*
ME-435 Senior Interdisciplinary Laboratory Project (Hybrid Electric Car)
ME-427 Kinematics and Control of Electro-Mechanical Systems
- Junior Level: ME-320 Mechanical Vibrations
ME-312 Kinematics
ME-309 Materials Science
ME-314 Junior Interdisciplinary Laboratory Project (Product Innovation)*
- Sophomore Level: ME-202 Statics
ME-203 Dynamics
ME-204/205 – Engineering Mechanics I and II
ME-208 Mechanics of Materials
- Freshman Level: ENGR-110 Computer Applications in Engineering (Labview, Matlab, MathCAD, Excel)
- * course developed by Glenn Vallee

University of Rhode Island, Kingston, RI (September 1990 to January, 1998)

Adjunct Assistant Professor

- Responsible for development of a curriculum for instruction of senior level *Mechanical Systems Design* (Machine Design) and *Introduction to the Finite Element Method* courses, as well as the entry level *Basic Graphics* courses. Frequently incorporate real world, practical design projects into the curriculum.
- Member of the Industrial Advisory Board for the Department of Mechanical Engineering and Applied Mechanics.

Courses Taught at Other Institutions:

Community College of Rhode Island, Warwick, RI

Mechanics of Materials, Dynamics, Statics, Mechanical Engineering Laboratory, Machine Design

New England Institute of Technology, Warwick, RI

Engineering Economics, Electromechanical Devices, Engineering Materials

PROFESSIONAL EXPERIENCE

Remington Products Company, L.L.C., Bridgeport, CT (September 1997 to August 2002)

Director of Engineering and Quality Assurance, Worldwide

Directed activities of Design and Product Engineering, Quality Assurance and Manufacturing departments in the U.S., U.K. and Asia responsible for the design and development of international consumer products. Responsible for focusing new product engineering toward continuously improving customer satisfaction through improved product design, performance and quality.

- Co-authored the corporate New Product Development (NPD) process geared toward the design of electromechanical products having the highest quality which met or exceed consumer expectations. Integrated Computer Aided Engineering (CAE), Quality Assurance and consumer feedback into the design and development of international consumer products.
- Supervised the corporate laboratories (US and Hong Kong) and brought them up to UL, CSA and Demko regulatory standards. Responsible for developing all test protocols and methodologies for new product testing and qualification. Introduced electronic instrumentation techniques into the product qualification process, including strain gage techniques, photoelastic stress analysis, a variety of dynamic test methods and high speed data acquisition and control. Responsible for supervising failure analysis of products involved in product liability litigation.
- Helped introduce solid modeling (Pro/E) and rapid prototyping to an engineering department which previously designed products using only 2D CAD (CADKey and AutoCAD). Integrated (and performed) Finite Element Analysis (FEA), Design of Experiments (DOE), Failure Mode and Effects Analysis (FMEA) and formal design reviews into the NPD process.
- Introduced modern Quality Assurance techniques into the company and brought the US factory to CGMP standards. Reorganized the entire QA department and all quality systems (including the Bridgeport manufacturing facility) to improve effectiveness. Integrated QA into the NPD process and directed input from QA, returned product analysis and consumer feedback into improved products, resulting in a 35% drop in product returns over three years.
- Helped create QA offices in both Hong Kong and mainland China in order to implement much of the QA function at supplier location, resulting in improved communications and more efficient corrective actions and lot dispositions. Reduced inspection costs by over 50% while reducing manufacturing defects by nearly 20%.
- Directed all corporate research activities with local Universities in order to incorporate new technologies into new products. Projects included the development of new surface finishes and cutting materials for shaving/hair trimming applications, and advanced thermal analyses in paraffin spas.
- Managed and provided leadership to business process improvement teams aimed at improving corporate processes and efficiencies. Analyzed data including trends, historical records, customer needs, cost of quality analysis and competitive intelligence while working with all levels and functions. Responsible for presenting quarterly reports to senior management on NPD activities Quality initiatives.
- Created and programmed an electronic engineering documentation system, replacing the previous paper system and streamlining information flow. Developed an international product performance database, enabling the sharing engineering documentation, test data, product returns data and customer feedback within the worldwide organization via the internet.

Stanley-Bostitch Company, East Greenwich, RI (October 1985 to September 1997)

Manager, Engineering Laboratories (June, 1995 to September, 1997)

Responsible for managing the largest Engineering Laboratory in the Stanley Works, supervising 18 employees. Coordinated testing and allocated resources to meet stringent scheduling requirements of Product Development, Manufacturing and Marketing departments.

- Developed and implemented standard test batteries and comprehensive test methods for all product testing.
- Introduced and programmed high speed data acquisition and control systems, increasing productivity by over 50%, while providing support to new product development and existing product lines.
- Coordinated physical expansion of laboratory by 40% to support testing of all new and existing products. Responsible for performing periodic quality audits on all major products.
- Coordinated research efforts as required to solve a wide range of design and manufacturing problems throughout the company.
- Principal Finite Element Analyst for company, and technical liaison to international segments of the corporation responsible for coordinating adherence to international safety standards.
- Company representative and technical expert in product liability litigation.

Product Design/Development Engineer (August 1987 to June 1995)

Responsible for guiding product development from concept through production in a highly competitive manufacturing environment. Extensive design and analysis experience using Unigraphics and AutoCAD CAD/CAM software and ABAQUS and ANSYS FEA software.

Test Engineer (August 1986 to August 1987)

Directed and conducted activities in the engineering lab to evaluate product performance. Extensive work in the areas of vibration testing and experimental stress analysis utilizing photo elastic coatings and strain gauge technology.

Technician (October 1985 to August 1986)

Conducted a wide range of testing in the engineering lab to evaluate product performance. Extensive work using a variety electronic transducers and signal conditioning devices.

RESEARCH AREAS OF INTEREST

- Dynamic mechanical behavior of materials using experimental and Finite Element techniques
- Static and dynamic mechanical behavior of elastomeric materials
- Experimental verification techniques for Finite Element Analysis
- Finite Element Analysis and applications to design
- New product development process and methods used to reduce time to market as related to consumer and industrial products
- Unique methodologies for experimentally determining performance of consumer products and assessing consumer satisfaction.

PROFESSIONAL ACTIVITIES

Professional Societies

American Society of Mechanical Engineers
Tau Beta Pi Engineering Honor Society, Rhode Island Chapter
Pi Tau Sigma Engineering Honor Society, Rhode Island Chapter

CONSULTING

Patent Litigation – Technical Expert

Adduci, Mastriani & Schaumberg LLP, Washington, DC.

- Served as technical expert in an ITC non-infringement patent investigation related to Certain Electronic Nicotine Delivery Systems and Components Thereof, 2019.

Hinckley, Allen & Snyder LLP, Providence, RI.

- Provided expert declarations and deposition testimony in infringement patent litigation related to spring powered desktop staplers, 2018.

Hoffmann & Baron, LLP, Parsippany, NJ.

- Provided expert declarations and deposition testimony in non-infringement patent litigation related to a toy car and tube track system, 2019.

McDermott Will & Emery LLP, Washington DC.

- Provided expert declarations related to invalidity and non-infringement, deposition testimony and hearing testimony in patent litigation before the ITC related to gas spring powered nailers, 2018.
- Provided expert declarations related to infringement patent litigation related to powered nailers, 2019.

Meunier Carlin & Curfman LLC, Atlanta, GA.

- Provided expert declarations and deposition testimony in IPR patent litigation related to hole saws, 2016.
- Provided expert declarations in IPR patent litigation related to children's play yards, 2016.
- Provided expert declarations in IPR patent litigation related to attachments for barbecue grills, 2017.
- Provided expert declarations and deposition testimony in non-infringement patent litigation related to inflatable air mattresses with integral pumps, 2018.

Procopio, Cory, Hargreaves & Savitch, LLP, Palo Alto, CA.

- Provided expert declaration in a patent post grant review (PGR) related to coil spring motors that fold curtains and blinds, 2020.

Robins Kaplan, LLP, Boston, MA.

- Provided expert declaration in patent litigation related to vaping devices, 2020.

Squire Patton Boggs LLP (US), Cleveland OH.

- Provided expert declaration and deposition testimony in IPR patent litigation, and expert declarations in ITC and US Customs litigation related to attachments for mobile devices, 2018.
- Provided expert declarations in IPR patent litigation related to cable glands, 2018.

Wilson Sonsini Goodrich & Rosati, Seattle, WA.

- Provided expert declarations in patent interference litigation related to apparatuses, systems, and methods for processing foodstuff, 2019.
- Provided expert declarations in patent re examination litigation related to patient controlled analgesic devices, 2020.

Products Liability Litigation – Technical Expert

Conway Stoughton, L.L.C, West Hartford, CT.

- Provided expert reports and deposition testimony in product liability litigation related to a cold/pressure therapy device, 2017.

Hitachi Koki USA, Norcross, GA.

- Provided expert reports and deposition testimony in product liability litigation related to pneumatic nailers. 2011 to present.

Stanley/Black&Decker, New Britain, CT.

- Provided expert reports, deposition and trial testimony in product liability litigation related to pneumatic nailers, 2009 to present.

The TASA Group, Inc., Blue Bell, PA.

- Provide services as a technical expert in general product liability litigation related to plumbing fittings, walking canes, acupuncture heat lamps hammer drills and electric sanders, 2015 to present.

Design, Analysis and Product Development

Bacou-Dalloz Eye and Face group, Smithfield, RI.

- Developed an engineering documentation system for experimental data and document control. August, 2006.

Chimney Works Company, Higganum, CT.

- Designed an alternate knuckle boom extension system for improved positioning of prefabricated concrete chimney sections, November, 2004.
- Performed a finite element stress analysis of a prefabricated concrete chimney chase to assess strength. April 2004.

Flow Design Inc., Springfield, MA.

- Design and development of surgical clips and clip applier used in cardio bypass surgery, April, 2007.
- Inspection and Testing of Titanium Vascular Clips, June, 2007.
- Tooling and Testing of Titanium Surgical Clips, August, 2007.

Hamilton Sundstrand Corporation, Windsor Locks, CT.

- Performed a finite element stress analysis of a titanium starter rotor used in jet engines, February, 2003.

The Hillman Group, Tempe, AZ.

- Perform numerical simulations to optimize deck screw performance, May, 2017.

Lenox Saw Company, East Longmeadow, MA.

- Developed a finite element model for simulation of band saw cutting. December, 2007.
- Developed improvements to band coil annealing processes using finite element analysis. February, 2008.
- Developed a numerical model for the prediction of the onset of crooked cutting. April, 2008.
- Developed a fully 3D finite element based methodology for the design of improved band saw cutting systems. October, 2010.

Shark/Ninja Co., Newton MA.

- Supervised engineering group in mainland China responsible for Finite element Analysis, 2016-2017.

Stanley Fastening Systems, East Greenwich, RI.

- Developed and fabricated a prototype of a CO₂ cartridge powered fastening tool June, 2004.
- Developed a dynamic material model for a nitrile elastomer used in impact bumpers in pneumatic fastening tools. November, 2004.

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